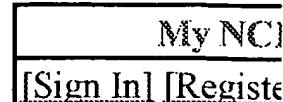
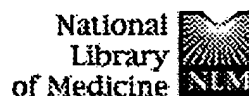


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	144	chronic adj wound	USPAT	OR	OFF	2005/05/19 14:59
L2	1	l1 near6 (metalloprotease or metalloproteinase)	USPAT	OR	OFF	2005/05/19 14:59



All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for chronic wounds metalloprotease Go Clear Save Search

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Sort by Send to

About Entrez

All: 95 Review: 19

Text Version

Items 1 - 20 of 95

Page 1 of 5 Next

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation

Matcher

Batch Citation

Matcher

Clinical Queries

Special Queries

LinkOut

My NCBI

(Cubby)

Related

Resources

Order Documents

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

1: Greener B, Hughes AA, Bannister NP, Douglass J. Related Articles, Links

Proteases and pH in chronic wounds.
J Wound Care. 2005 Feb;14(2):59-61. Review. No abstract available.

PMID: 15739652 [PubMed - indexed for MEDLINE]

2: Toy LW. Related Articles, Links

Matrix metalloproteinases: their function in tissue repair.
J Wound Care. 2005 Jan;14(1):20-2. Review.

PMID: 15656460 [PubMed - indexed for MEDLINE]

3: Schmid M, Rodemann HP, Aicher WK. Related Articles, Links

[Frequency of terminally differentiated fibroblasts in the synovial
membrane of rheumatoid arthritis patients]
Z Rheumatol. 2004 Dec;63(6):483-9. German.

PMID: 15605214 [PubMed - indexed for MEDLINE]

4: Philipp K, Riedel F, Sauerbier M, Hormann K, Germann G. Related Articles, Links

Targeting TGF-beta in human keratinocytes and its potential role in
wound healing.

Int J Mol Med. 2004 Oct;14(4):589-93.

PMID: 15375586 [PubMed - indexed for MEDLINE]

5: Teot L. Related Articles, Links

[IV--Chronic wounds]
Soins. 2004 May;(685):21-3. French. No abstract available.


PMID: 15208951 [PubMed - indexed for MEDLINE]

6: Kjaer M. Related Articles, Links


Role of extracellular matrix in adaptation of tendon and skeletal
muscle to mechanical loading.

Physiol Rev. 2004 Apr;84(2):649-98. Review.
PMID: 15044685 [PubMed - indexed for MEDLINE]


- ☐ 7: [Ayello EA, Cuddigan JE.](#) Related Articles, Links

 Debridement: controlling the necrotic/cellular burden.
Adv Skin Wound Care. 2004 Mar;17(2):66-75; quiz 76-8. Review.
PMID: 15021091 [PubMed - indexed for MEDLINE]


- ☐ 8: [Hieta N, Impola U, Lopez-Otin C, Saarialho-Kere U, Kahari VM.](#) Related Articles, Links

 Matrix metalloproteinase-19 expression in dermal wounds and by fibroblasts in culture.
J Invest Dermatol. 2003 Nov;121(5):997-1004.
PMID: 14708598 [PubMed - indexed for MEDLINE]


- ☐ 9: [Scheidbach H, Tamme C, Tannapfel A, Lippert H, Kockerling F.](#) Related Articles, Links

 In vivo studies comparing the biocompatibility of various polypropylene meshes and their handling properties during endoscopic total extraperitoneal (TEP) patchplasty: an experimental study in pigs.
Surg Endosc. 2004 Feb;18(2):211-20. Epub 2003 Dec 29.
PMID: 14691711 [PubMed - indexed for MEDLINE]


- ☐ 10: [Cutting KF.](#) Related Articles, Links

 Wound exudate: composition and functions.
Br J Community Nurs. 2003;8(9 Suppl):suppl 4-9. Review.
PMID: 14685963 [PubMed - indexed for MEDLINE]


- ☐ 11: [Canapp SO Jr, Farese JP, Schultz GS, Gowda S, Ishak AM, Swaim SF, Vangilder J, Lee-Ambrose L, Martin FG.](#) Related Articles, Links

 The effect of topical tripeptide-copper complex on healing of ischemic open wounds.
Vet Surg. 2003 Nov-Dec;32(6):515-23.
PMID: 14648529 [PubMed - indexed for MEDLINE]


- ☐ 12: [Fray MJ, Dickinson RP, Huggins JP, Occleston NL.](#) Related Articles, Links

 A potent, selective inhibitor of matrix metalloproteinase-3 for the topical treatment of chronic dermal ulcers.
J Med Chem. 2003 Jul 31;46(16):3514-25.
PMID: 12877590 [PubMed - indexed for MEDLINE]


- ☐ 13: [Steinmetz EF, Buckley C, Thompson RW.](#) Related Articles, Links

-  Prospects for the medical management of abdominal aortic aneurysms.
Vasc Endovascular Surg. 2003 May-Jun;37(3):151-63. Review.
PMID: 12799723 [PubMed - indexed for MEDLINE]


☐ 14: [Falk P, Ivarsson ML](#). [Related Articles, Links](#)

-  Examination gloves affect secretion of matrix metalloproteinases and their inhibitors from human abdominal skin fibroblasts.
Wound Repair Regen. 2003 May-Jun;11(3):230-4.
PMID: 12753605 [PubMed - indexed for MEDLINE]


☐ 15: [Stephens P, Cook H, Hilton J, Jones CJ, Haughton MF, Wyllie FS, Skinner JW, Harding KG, Kipling D, Thomas DW](#). [Related Articles, Links](#)

-  An analysis of replicative senescence in dermal fibroblasts derived from chronic leg wounds predicts that telomerase therapy would fail to reverse their disease-specific cellular and proteolytic phenotype.
Exp Cell Res. 2003 Feb 1;283(1):22-35.
PMID: 12565817 [PubMed - indexed for MEDLINE]


☐ 16: [White P, Thomas DW, Fong S, Stelnicki E, Meijlink F, Largman C, Stephens P](#). [Related Articles, Links](#)

-  Deletion of the homeobox gene PRX-2 affects fetal but not adult fibroblast wound healing responses.
J Invest Dermatol. 2003 Jan;120(1):135-44.
PMID: 12535210 [PubMed - indexed for MEDLINE]

☐ 17: [Bowler PG](#). [Related Articles, Links](#)


-  Wound pathophysiology, infection and therapeutic options.
Ann Med. 2002;34(6):419-27. Review.
PMID: 12523497 [PubMed - indexed for MEDLINE]

☐ 18: [Antezana M, Sullivan S, Usui M, Gibran N, Spenny M, Larsen J, Ansel J, Bunnett N, Olerud J](#). [Related Articles, Links](#)


-  Neutral endopeptidase activity is increased in the skin of subjects with diabetic ulcers.
J Invest Dermatol. 2002 Dec;119(6):1400-4.
PMID: 12485446 [PubMed - indexed for MEDLINE]

☐ 19: [Spenny ML, Muangman P, Sullivan SR, Bunnett NW, Ansel JC, Olerud JE, Gibran NS](#). [Related Articles, Links](#)

Neutral endopeptidase inhibition in diabetic wound repair.

 Wound Repair Regen. 2002 Sep-Oct;10(5):295-301.
PMID: 12406165 [PubMed - indexed for MEDLINE]

☐ **20:** Cullen B, Watt PW, Lundqvist C, Silcock D, Schmidt RJ, Bogan D, Light ND. Related Articles, Links

 The role of oxidised regenerated cellulose/collagen in chronic wound repair and its potential mechanism of action.
Int J Biochem Cell Biol. 2002 Dec;34(12):1544-56.
PMID: 12379277 [PubMed - indexed for MEDLINE]

Items 1 - 20 of 95

Page of 5 Next

Display Show Sort by Send to

[Write to the Help Desk](#)

[NCBI](#) | [NLN](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

May 16 2005 17:16:29

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623SQS

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *
* *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 25	CA/CAPLUS - Russian Agency for Patents and
Trademarks			(ROSPATENT) added to list of core patent offices
covered			
NEWS	4	FEB 28	PATDPAFULL - New display fields provide for legal
status			
			data from INPADOC
NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7	MAR 02	GBFULL: New full-text patent database on STN
NEWS	8	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10	MAR 22	KOREAPAT now updated monthly; patent information
enhanced			
NEWS	11	MAR 22	Original IDE display format returns to
REGISTRY/ZREGISTRY			
NEWS	12	MAR 22	PATDPASPC - New patent database available
NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental
property tags			
NEWS	14	APR 04	EPFULL enhanced with additional patent information
and new			
			fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS	16	APR 18	New CAS Information Use Policies available online
NEWS	17	APR 25	Patent searching, including current-awareness
alerts (SDIs),			
			based on application date in CA/CAPLUS and
USPATFULL/USPAT2			
			may be affected by a change in filing date for U.S.
			applications.
NEWS	18	APR 28	Improved searching of U.S. Patent Classifications
for			
			U.S. patent records in CA/CAPLUS

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *
* *

FILE 'HOME' ENTERED AT 12:37:11 ON 19 MAY 2005

=> File Medline EMBASE Biosis Caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 12:37:16 ON 19 MAY 2005

FILE 'EMBASE' ENTERED AT 12:37:16 ON 19 MAY 2005
COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'BIOSIS' ENTERED AT 12:37:16 ON 19 MAY 2005
Copyright (c) 2005 The Thomson Corporation

FILE 'CAPLUS' ENTERED AT 12:37:16 ON 19 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

=> s (chronic (w) wound)
L1 2322 (CHRONIC (W) WOUND)

=> s (metalloprotease or metalloproteinase) (4A) (detect or detection
or detected or analysis or analyze or test or tested or testing)
3 FILES SEARCHED...

L2 1676 (METALLOPROTEASE OR METALLOPROTEINASE) (4A) (DETECT OR
DETECTION
OR DETECTED OR ANALYSIS OR ANALYZE OR TEST OR TESTED
OR TESTING

)

=> s l1 (12A) l2
L3 6 L1 (12A) L2

=> duplicate
ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove
ENTER L# LIST OR (END):l3
DUPLICATE PREFERENCE IS 'MEDLINE, BIOSIS, CAPLUS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L3
L4 4 DUPLICATE REMOVE L3 (2 DUPLICATES REMOVED)

=> d l4 1-4 bib ab

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:492550 CAPLUS
DN 139:65381
TI Immunosensors for detection of proteinase in the active and
proenzyme form
in chronic wounds of humans and animals and diagnostic
applications
IN Quirk, Stephen; Tyrrell, David John
PA USA
SO U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
-----	-----	----	-----	-----
PI	US 2003119073	A1	20030626	US 2001-26393
20011221				
	WO 2003058237	A1	20030717	WO 2002-US36297
20021112				
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,			

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF,
BJ, CF,

CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 2001-26393 A 20011221

AB Sensors for detecting catabolic proteinase enzymes and
proenzymes in the

fluid of a human or animal and methods for detecting the enzymes
and then

providing treatment that is specific for the detected enzyme are
disclosed. The sensor comprises a sample reservoir in fluid
communication

with at least one reaction site and a collection area. A signal
element

and a target antibody bindable to a specific portion of a target
proteinase are disposed within the sample reservoir. The
sensors of the

present invention can be used to detect catabolic proteinase
enzymes and

proenzymes in the fluid of chronic wounds of humans and animals.

Upon
detection of any proteinase enzyme, the wound can be treated
with an

inhibiting complex that is specific for the detected enzyme or
proenzyme.

Enzymes such as matrix metalloproteinases and human neutrophil
elastase in

the active and proenzyme form can be detected and treatment
provided with

inhibitors for the detected enzyme.

L4 ANSWER 2 OF 4 BIOSIS COPYRIGHT (c) 2005 The Thomson
Corporation on STN

AN 2001:442190 BIOSIS

DN PREV200100442190

TI **Analysis** of the matrix **metalloproteinase** profile in
different **chronic wounds** after surgical debridement.

AU Riordan, C. [Reprint author]; Bennett, L. [Reprint author];
Zahir, K.

[Reprint author]; Nanne, L. [Reprint author]

CS Department of Plastic Surgery and Cell Biology, Vanderbilt
Medical Center,
Nashville, TN, USA

SO Wound Repair and Regeneration, (March-April, 2001) Vol. 9, No.
2, pp. 156.

print.

Meeting Info.: Eleventh Annual Meeting and Educational Symposium
Wound

Healing Society. Albuquerque, New Mexico, USA. May 16-18, 2001.

Wound

Healing Society.

ISSN: 1067-1927.

DT Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 19 Sep 2001

Last Updated on STN: 22 Feb 2002

L4 ANSWER 3 OF 4 MEDLINE on STN

DUPLICATE 1

AN 1998374157 MEDLINE

DN PubMed ID: 9710383

TI Patterns of matrix metalloproteinase and TIMP expression in
chronic
ulcers.

AU Saarialho-Kere U K

CS Department of Dermatology, Helsinki University Central Hospital,
Finland..

ulpu.saarialho-kere@helsinki.fi

SO Archives of dermatological research, (1998 Jul) 290 Suppl
S47-54. Ref: 42

Journal code: 8000462. ISSN: 0340-3696.

CY GERMANY: Germany, Federal Republic of

DT Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LA English

FS Priority Journals

EM 199810

ED Entered STN: 19981020

Last Updated on STN: 20000303

Entered Medline: 19981005

AB Controlled proteolysis is needed for cell migration,
angiogenesis, and

matrix remodeling during normal wound repair. Our objective has
been to

investigate how chronic leg ulcers differ from normally healing
wounds

(pinch graft donor sites) with respect to their metalloproteinase
expression patterns. Using in situ hybridization and
immunohistochemistry, we found that collagenase-1 (MMP-1),

stromelysin-1

(MMP-3) and stromelysin-2 (MMP-10) were expressed in
keratinocytes

bordering both acute and chronic wounds. Unlike MMP-1, signal
for

collagenase-3 (MMP-13) was not detected in keratinocytes but
exclusively

in fibroblasts deep in the ulcer bed of chronic wounds,
suggesting that

while MMP-1 production is important for migration, MMP-13 plays
a role in

matrix remodeling. Tissue inhibitor of metalloproteinase
(TIMP)-1 was not detected in the epidermis of any

chronic wound sample while it was expressed in

keratinocytes bordering normally healing wounds. TIMP-3 was
abundantly

expressed in stromal fibroblast- and macrophage-like cells surrounding vessels and sweat glands in both types of wounds. Our results suggest that there are no qualitative differences in the expression of MMPs-1, -3 and -10 in the epidermis of chronic vs normally healing wounds. However, the number of stromal cells expressing MMP-1 and MMP-3 was greater in chronic vs acute wounds, whereas MMP-10 was never detected in the dermis. TIMP-1 expression near the basement membrane in acute, but not in chronic, wounds suggests that the balance between MMPs and their inhibitors may be altered in poorly healing wounds. Analogous to chronic cutaneous wounds, MMP-1 and -3 are abundantly expressed in chronic small and large bowel ulcers, while the migrating surface epithelium is negative for TIMP-1 expression.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1998:551112 CAPLUS

DN 129:288358

TI Epidermal growth factor in wound healing: a model for the molecular pathogenesis of chronic wounds

AU Tarnuzzer, Roy W.; Macauley, Shawn P.; Mast, Bruce A.; Gibson, Jane S.;

Stacey, Michael C.; Trengrove, Naomi; Moldawer, Lyle L.; Burslem, Frank;

Schultz, Gregory S.

CS Inst. Wound Res., Dep. Obstetrics Gynecol., Univ. Florida, Gainesville, FL, USA

SO Growth Factors and Wound Healing: Basic Science and Potential Clinical

Applications, [Proceedings of the International Symposium on Growth Factors

and Wound Healing: Basic Science and Potential Clinical Applications],

Boston, Sept. 28-Oct. 1, 1995 (1997), Meeting Date 1995, 206-228.

Editor(s): Ziegler, Thomas R.; Pierce, Glenn F.; Herndon, David

N.

Publisher: Springer, New York, N. Y.

CODEN: 66NNAI

DT Conference; General Review

LA English

AB A review, with 58 refs. Topics discussed include: general background of

skin wound healing and chronic wound pathophysiol., the role of
 endogenous
 EGF family proteins in wound healing, the effects of exogenously
 applied
 EGF family proteins in wound healing, biochem. differences in
 environments
 of healing and chronic wounds, proteinase and inhibitor levels,
 the
 azocoll assay of various wound fluids, gelatin and casein zymog.
 of
 various wound fluids, quant. RT-PCR **anal.** of matrix
metalloproteinases and TIMP species of **chronic**
wound biopsies, growth factor degradation, growth factor receptor
 degradation, biol. effects of acute and chronic wound fluids on
 wound cells,
 and future concepts for the treatment of chronic wounds.
 RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file stnguide		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	33.75	33.96
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.46	-1.46

FILE 'STNGUIDE' ENTERED AT 12:40:08 ON 19 MAY 2005
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
 COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
 AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

 FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: May 13, 2005 (20050513/UP).